

G100

Power Flow-Thru Humidifier



TECHNICAL ENGINEERING SPECIFICATION



Performance

- Save on energy costs and improve comfort.
- Increasing a home's relative humidity makes it feel more comfortable at 68°F / 20°C than it does at 73°F / 23°C at a low relative humidity level.
- Lower thermostat settings deliver substantial savings on monthly energy bills.
- Evaporative supply capacity distributes up to 19 gallons per day at 120°F.
- Ideal for heat-pump applications.

Features

- Self-piercing saddle valve and a 24v brass solenoid valve makes installation easy.
- Built-in fan motor helps deliver maximum humidity.
- 2" evaporator pad expands the evaporative area for water supply and increases performance.
- Flexible Humidity Control – The wall or duct-mounted humidistat adjusts from 20% to 80% relative humidity.
- Serviceable internal water filter protects solenoid.

How Humidifiers Work

The evaporative humidifier is installed into the supply duct and air is drawn across the moist evaporator pad (wetted through the home's water supply). The evaporated water is efficiently released into the home by the furnace or air handler. The adjustable, precision-made humidistat allows the user to choose the optimum humidity level for maximum indoor comfort.

Warranty

- 2-Year limited warranty.

TECHNICAL ENGINEERING SPECIFICATION

G100

Evaporator Supply Capacity

Model	G100
Part No.	351453-001
Type Of Unit	Power-Assisted Flow-Thru
Voltage/Hz/Motor	120 / 60 / 1/20 Hp (0.037 Kw)
Solenoid Valve	24 V Brass, Rated for 150 PSI (10.34 Bar)
Evaporator Pad Size	9" W x 2" D x 14" H (229 W x 51 D x 356 H mm)
Weight	13 lbs (5.9 kg) / Shipping – 18 lbs (8.16 kg)
Dimensions	Unit – 13" W x 11 1/2" D x 18 3/4" H (330 W x 292 D x 476 H mm) Packaging – 21 5/8" W x 16 5/8" D x 15 1/4" H (549 x 422 x 387 mm)
Duct Opening	12 1/4" W x 15 1/2" H (311 W x 394 H mm)
Humidistat	Adjustable from 20% to 80% Relative Humidity
Drain Tubing	1/2" (12.8mm) O.D.

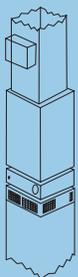
Furnace Temp.		Supply Side	
°F	°C	Gal / Day	Lt / Hr
100°F	37.7°C	14.5	(2.3)
120°F	48.8°C	19.0	(3.0)
140°F	60°C	24.0	(3.8)

Humidifier Capacity Selection Guide

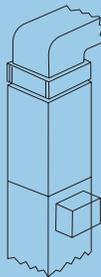
Sq. Footage (m) of Home		Tight ¹ Home		Average ² Home		Loose ³ Home	
1000	(92.9 m ²)	0.5	(0.08)	5.0	(0.8)	10.0	(1.6)
1500	(139.4 m ²)	3.0	(0.5)	10.0	(1.6)	16.5	(2.6)
2000	(185.8 m ²)	5.0	(0.8)	14.0	(2.2)	24.0	(3.8)
2500	(232.3 m ²)	7.5	(1.2)	19.0	(3.0)	30.5	(4.8)
3000	(278.7 m ²)	10.0	(1.6)	23.5	(3.7)	37.5	(5.9)
3500	(325.2 m ²)	14.5	(2.3)	33.0	(5.2)	51.5	(8.1)

1. A "Tight Home" is assumed to be well insulated with vapor barriers, tight storm windows and doors, and a dampered fireplace. Air exchange rate of .5 changes per hour.
2. An "Average Home" is insulated and has a dampered fire place, but there are no vapor barriers, storm doors, or storm windows. Air exchange rate of 1.0 change per hour.
3. A "Loose Home" is generally one constructed before 1930, has little or no insulation, no storm doors, storm windows, weather stripping or vapor barriers, and often no effective dampering of fireplaces. Air exchange rate is as high as 1.5 changes per hour.

Installation Options



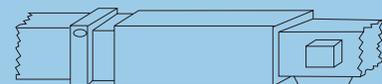
Upflow Bottom Return



Downflow Counterflow



Upflow Side Return



Horizontal

©2011 Trion[®]- Indoor Air Quality Solutions | Herrmidifier[®] - Engineered Humidification Solutions Trion[®] and Herrmidifier[®] are registered trademarks of Air System Components, Inc. Trion[®] reserves the right to revise or modify products and/or specifications without notice.
All product specifications reflect available information at the printing of this brochure.

Trion[®] | 101 McNeill Road | Sanford, NC 27330 | Phone: 800-884-0002 | Fax: 800-458-2379
Web: www.trioniaq.com | Email: customerservice@trioniaq.com